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CLASSIFICATION CONFIDENTIAL CENTRAL INTELLIGENCE AGENCY

INFORMATION FROM FOREIGN DOCUMENTS OR RADIO BROADCASTS REPORT

COUNTRY

USSR

CD NO.

SUBJECT

Economic - Electric power, rural electrif'cai'on

DATE OF

INFORMATION 1913 - 1950

HOW

PUBLISHED

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DATE DIST. 31 Jul 1953

WHERE **PUBLISHED**

USSR

NO. OF PAGES 13

DATE

PUBLISHED

1948 - 1952

Russian

LANGUAGE

SUPPLEMENT TO REPORT NO.

THE UNITED STATES. WITHIN THE MEANING OF TITLE 18. SECTIONS 21 IND TRE. OF THE U.S. CODE, AS AMENOED. ITS TRANSMISSION OF REVE ATION OF ITS COVERTS TO OR RECEIPT BY AN UNAUTHORIZED FERSON :

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SOURCE

Newspapers, periodicals, and books as indicated.

TABLE ON RURAL ELECTRIFICATION IN THE USSR

The following table is a compilation of figures on rural electrification in the USSR between 1913 and 1950 taken from Soviet sources. It is designed to serve as a basis for future exploitation by FDD of this subject and to give an over-all picture of rural electrification in the USSR on the basis of foreign documents.

The table is divided into five main headings: (1) rural electric power installations, which include all rural electric power stations and connections to state power networks; (2) rural electric power stations, which include TES and GES; (3) connections to state power networks, including all installations which are connected to state power networks furnishing electricity to agriculture; (4) the number of electrified kolkhozes, sovkhozes, MTS, MTM (machine-tractor repair shops), and MRZ (machine-repair plants), and (5) the number of light bulbs, electric motors, and electric threshing machines in use in agriculture.

All documented figures are either taken as cited from the sources, in which case only the source is cited, or calculated on the basis of information contained in the sources. In the latter case the figures used as a basis for calculations are quoted in notes accompanying the sources to give the reader an opportunity to check the calculations. When there are conflicting figures from two different sources for the same subject and year, they are cited to-gether. In making further calculations with conflicting figures, both figures were used if available evidence did not support one figure more than the other. However, of one figure was confirmed in a third source, the other was disregarded; or, if in making further calculations, one of the conflicting figures was used with one or more figures cited in the same source -- for example: Suppose source a states that the capacity of rural electric power installations in 1926 was 1,000 kilowatts, while source b gives 1,250 kilowatts. Source a states that the capacity in 1927 was 1,500 kilowatts, while source b gives no information for 1927 on this subject. In calculating the increase from 1926 to 1927, the 1926 figure from source a was used and the figure from source b disregarded, since the 1927 figure also comes from source a.

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The terms "over" and "planned" are used in the table as they appear in the sources. The term "about" is used when further calculations are based on an average between two figures.

Question marks have been placed after the 1949 figures for the capacity of rural electric power installations and rural electric power stations because, while the figures under these two headings between 1945 and 1950 check with some variations whether they are calculated horizontally or vertically, substantial discrepancies appear in the case of 1949. It is suggested that the figure for 1949 which is cited in the table "Increase in Capacities of Installations," in the footnote accompanying source f, is erroneous. Consequently, all figures which are based on it directly or indirectly are followed by a question mark.

Letters in parentheses refer to appended sources.

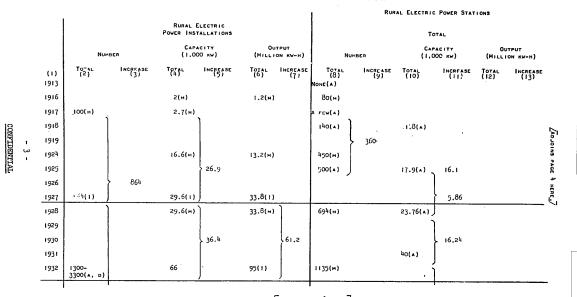
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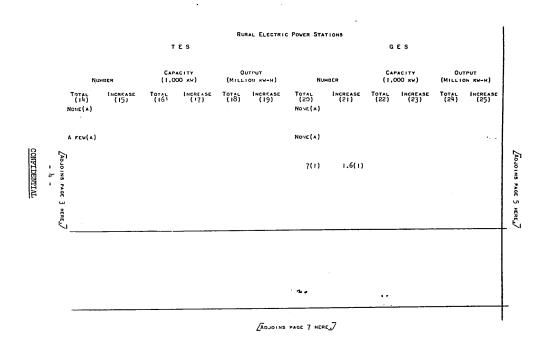
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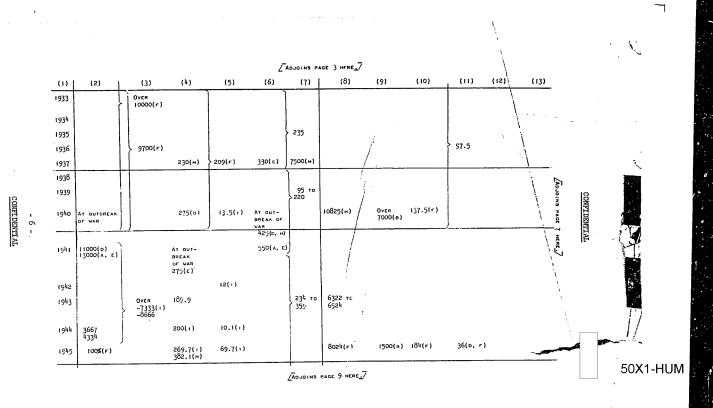
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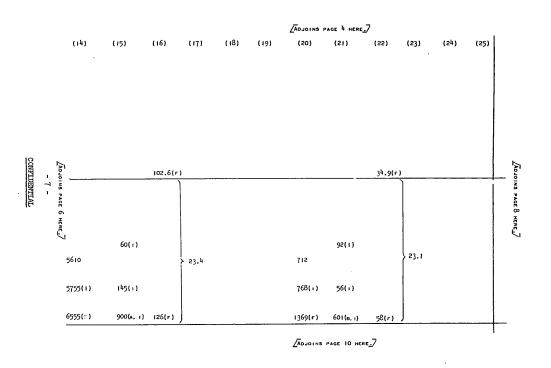
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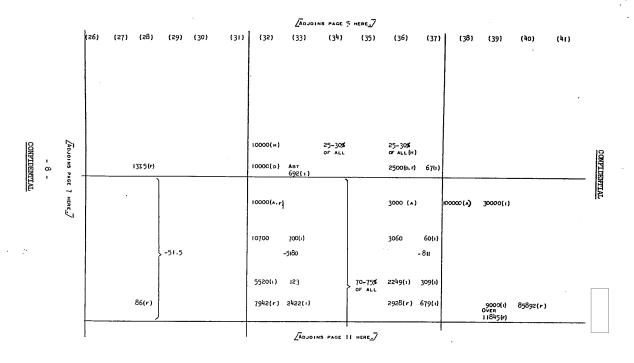
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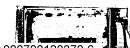
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	1949	265.7%		975? 1152(r)	258			19681(F) 19690	Авт 2564	608(F) 579?	174(r) 110(o)			ADJOINS
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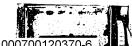
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SOURCES

- a. Moscow, Geografiya v Shkole, No 2, Mar/Apr 52
- b. Frunze, Sovetskaya Kirgiziya, 16 Dec 50. Capacity of rural GES in 1950 was over 10 times greater than in 1940.
 - c. Moscow, Sovetskaya Kniga, No 4, 1951

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d. Moscow, Voprosy Ekonomiki, No 5, May 52

The total capacity of rural electric power installations put in operation in 1945 was more than 5 times greater than the capacity of those put in operation in 1940. Taking the capacity of rural electric power stations put in operation in 1945 as 100 percent, then the capacities of those put in operation in 1946, 1947, 1948, 1949, and 1950 are 170, 228, 292, 309, and 323 percent, respectively.

- e. Geografiya v Shkole, No 5, Sep/Oct
- f. Moscow, Rol' elektrifikatsii v razvitii material'no-tekhnicheskoy bazy sel-skogo khozyaystva SSSR (Influence of Electrification on the Development of the Material and Technical Bases of Agriculture in the USSR), by S. Matskevich, 1952

Capacities of Rural Electric Power Installations (in percent of total capacity)

	<u> 1937</u>	<u>1940</u>	<u>1945</u>	1946	1947	1948	1949
Total	100	100	100	100	100	100	100
GES	11	12.7	21.6	22.5	22:1	23.6	25
TES	39	37.3	46.6	42	38.4	36.8	34.4
Connections to state power net-							
works	50	50	31.8	35.5	39 • 5	39.6	40.6

Progress of Electrification of Agriculture (in percent)

:						
End of:	1945	1946	1947	1948	1949	1950
Number of electric motors in use	100	158.6	236.3	326.7	456.1	633.2
Their capacity	100	128.5	190	253.8	345.7	465.7
Number of light bulbs	100	138.3	197.5	263.3	370.8	436.8
Number of electrically driven threshing units	100	150	247.3	369	476.2	557 • 4
Number of kolkhozes	100	164.5	234.0	238.6	250.3	174.0

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Increase in Number of Installations (in percent)

	1945	<u> 1946</u>	<u> 1947</u>	1948	1949	1950
Rural electric power installations	100	134	179.2	225.8	265.7	307.5
Including rural elec- tric power stations	100	132.6	171.8	213.4	245.4	261.8
Of which:						
GES	100	179.6	254.1	252.2	439.8	453.6
TES	100	122.9	154.9	184.8	205.4	222.3

Increase in Capacities of Installations (in percent)

: End	Rural Power	Rural	Power Stat	ions
of:	Installations	Total	TES	GES
1945	100	100	100	100
1946	141.7	134.7	128.1	179.6
1947	201.6	179.2	166.7	254.1
1948	265.9	236.2	210.8	352.2
1949	<u> </u>	330.7	336.9	439.8
1950	427.0	394.0	385.6	453.6

Of the total capacity of rural electric power stations in 1945, 68 percent were TES and 32 percent GES.

- g. Moscow, Elektrichestvo, No 11, Nov 52
- h. Moscow, Itogi i Perspektivy Razvitiya Sovetskoy Energetiki (Summary and Outlook of the Development of Soviet Power Sources), by A. V. Vinter, 1950
 - i. Moscow, Narodnoye Khozyaystvo SSSR, Sbornik No 2, 1948

Over two-thirds of rural electric installations were destroyed by the Germans during World War II. The increase in the capacity of rural electric power installations in 1945 was more than 5 times the 1940 increase. In 1945, the increase in the number of electrified kolkhozes was more than 3.5 times greater and of electrified MTS more than 10 times greater than the increases achieved in 1940. It is planned to increase the capacity of rural electric power installations in 1950 almost up to 2 million kilowatts. Is is also planned to have over 56,000 kolkhozes electrified.

k. Tashkent, Kommunist Tadzhikistana, 22 Nov 52

In November 1952, there were 97,000 consolidated kolkhozes in the USSR instead of 254,000 smaller ones on 1 January 1950.

- 1. Moscow, Gidrotekhnicheskoye Stroitel'stvo, No 11, Nov 52
- m. Moscow, Leninsko-Stalinskaya Elektrifikatsiya SSSR (Lenin-Stalin Electrification of the USSR), by S. F. Shershov, 1951

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